

Variable positive displacement compressor

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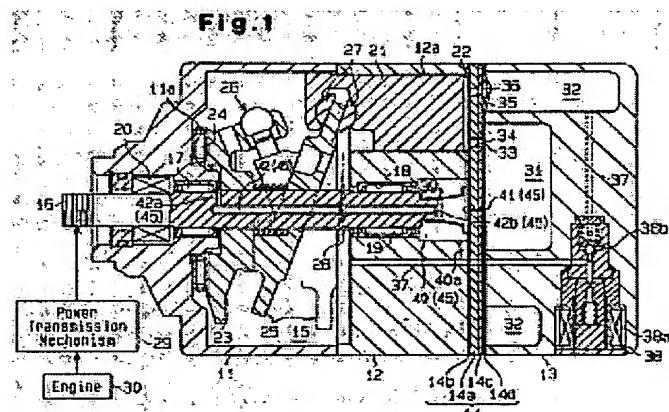
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A variable displacement compressor includes a supply passage for supplying refrigerant gas from a discharge chamber to a crank chamber and a bleed passage for bleeding the refrigerant gas from the crank chamber to a suction chamber. An oil separator is connected to a drive shaft and is located in the bleed passage. The oil separator rotates together with the drive shaft to centrifugally separate lubricant oil from the refrigerant gas that flows in the bleed passage. An oil chamber is formed in a compressor housing for receiving the separated oil. The pressure in the oil chamber is equal to or greater than the pressure in the crank chamber. The lubricant oil rapidly returns to the crank chamber through a return passage.



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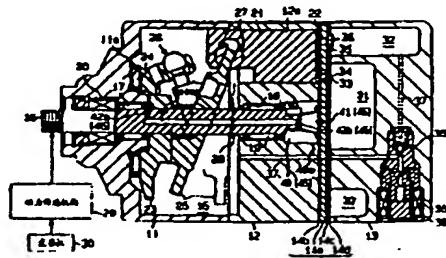
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[54] 发明名称 可变容压缩机

[57] 摘要

一种可变容压缩机包括一个用于从排放腔将制冷气体供到曲柄腔的供给通道和一个用于从曲柄腔将制冷气体排放到吸入腔的排放通道，一个油分离器连接到一驱动轴上并位于排放通道内。该油分离器与驱动轴一起旋转以便从在排放通道内流动的制冷气体中离心地分离出润滑油。一个油腔形成在压缩机壳体内，用于接收分离出的润滑油。油腔中的压力等于或大于曲柄腔中的压力。润滑油通过一返回通道快速地返回曲柄腔。



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